

Review Accivities:
Arry - AT, GL, ME
Air Force - 82
DLA - CS (H)

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TABLE I

DASH NUMBER		TUBE	A	В	D	M <sub>l</sub>	NL	$s_2$	Υ1
		0.0.	PIPE THREAD	STRAIGHT THREAD CLASS 2A	DIA DRILL				
ASSY	*BODY	NOM	NPTF	CLASS ZA	DRILL	±.03	±.03	MIN	±.020
j	21	1/8	1/8	5/16-24UNF	0.093	0.83	0.66	0.75	.0.562
2	22	3/16	1/8	3/8 -24UNF	0.125	0.83	0.66	0.76	0.562
3	23	1/4	1/8	7/16-20UNF	0.203	0.89	0.66	0.80	0.562
4	24	5/16	1/8	1/2 -20UNF	0,234	0.95	0.66	0.82	0.562
5	25	3/8	1/4	9/16-18UNF	0.281	1.05	0.88	1.06	0.750
6	26	1/2	3/8	3/4 -16UNF	0.422	1.23	1.02	1.27	0.875
7	27	5/8	1/2	7/8 -14UNF	0.500	1.42	1.23	1.52	1.062
8	28	3/4	3/4	1-1/16-12UN	0.656	1.58	1.36	1.73	1.312
9	29	7/8	3/4	1-3/16-12UN	0.718	1.62	1.42	1.82	1.312
10	30	1	1	1-5/16-12UN	0.875	1.73	1.62	2.10	1.625
11	31	1-1/4	1-1/4	1-5/8 -12UN	1.093	2.08	1.70	2.29	1.875
12	32	1-1/2	1-1/2	1-7/8 -12UN	1.344	2,58	2.08	2.80	2.562
13	33	2	2	2-1/2 -12UN	1.813	2.64	2.39	3.34	2.812

REVISED(B) 30 DEC 1970 (B) 22 NOV 1974 (C) 13 Nay 77 (D) 17 June 1982 (E)  $30~\mathrm{JULY}$  1987

APPROVED 29 DEC 1967

FOR NOTES SEE SHEET 2.

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P.A. AR Cihār Cust 99	TITLE	· <del></del>			MILITARY STANDARD			
Other Cost 77	TEE, PIPE TO TUBE, FEMALE PIPE ON RUN, FLARELESS TYPE, HYDRAULIC		MS51822					
PROCUREMENT SPECIFICATION MIL-F-18866	SUPERSEDES.	CNHX13 in part and 13.1 in part	SHEET	1	OF	2		
D FORK 672-1 /0				4	730-08	88		

User Activities: Army - AV Navy - OS, MC

Roview Activities: Arry - AI, GL, ME Air Force - 82 DLA - CS

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This military standard of the Department of De applications and for re

NOTES:

- Steel, carbon in accordance with procurement specification. Steel, corrosion-resisting in accordance with procurement specification. MATERIAL: 1.
- PROTECTIVE COATING: Cadmium plated in accordance with procurement specification. Zinc plated in accordance with procurement specification.
  Phosphate coating in accordance with procurement specification.
  Passivation treatment in accordance with procurement specification.
- DIMENSIONS AND TOLERANCES: Dimensions and tolerances not shown shall be in accordance with the SAE Standard for Flareless Tube Fittings (SAE J514).
- Threads shall be in accordance with Screw-Thread Standards for Federal Services, FED-STD-H28. THREADS:
- The MS part number consists of the MS number, plus the dash number and (for PART NUMBER: complete assembly) the applicable MS51825 sleeve style designator.
  - For the complete assembly (with nuts and sleeves), cadmium plated, use the MS number, plus the assembly dash number and the sleeve style designator. Example: MS51822-1A or MS51822-1B.
  - B. For the body only, cadmium plated, use the MS number and the body dash number. Example: MS51822-21.
  - C. For zinc coating add "Z" and (for complete assembly) the sleeve style designator to the dash number. Example: MS51822-1ZA or MS51822-1ZB or MS51822-21Z.
  - D. For phosphate coating add "P" and (for complete assembly) the sleeve style designator to the dash number. Example: MS51822-1PA or MS51822-1PB or MS51822-21P.
  - E. For corrosion-resisting steel add "SS" and (for complete assembly) the sleeve style designator to the dash number. Example: MS51822-1SSA or MS51822-1SSB or MS51822-21SS.
  - 6. For design feature purposes, this standard takes precedence over procurement documents refer-
  - Reference documents shall be of the issue in effect on date of invitations for bid.
  - The illustration is for identification and is not intended to restrict designs or shapes not dimensioned.
- After 22 NOV 1974 , bodies will be used for production only and SHALL NOT be stocked for maintenance. Existing stock of bodies should be used until depleted.
  - CAUTION: The following data is rurnished for the purpose of new design only and is not intended to imply interchangeability.

MS51822 will replace MS39209 for new design after approval date on this document. Table II below gives reference data for coordination of equivalent tube sizes, in both compression and hydraulic type tees. Assembly replacement is authorized.

## TABLE II (FOR INFORMATION ONLY) ASSEMBLY EQUIVALENCY

PART N	UMBER	PART N	UMBER	PART NUMBER		
COMPRESSION	HYDRAULIC	COMPRESSION	HYDRAULIC	COMPRESSION	HYDRAULIC	
MS39209-1	MS51822-1	M\$39209-5	MS51822-5	MS39209-9	MS51822-9	
-2	-2	-6	-6	-10	-10	
-3	-3	<b>-</b> 7	<del>-</del> 7	-11	-11	
-4	<b>-</b> 4	-8	-8	-12	-12	
		]			<u> </u>	

P.A. AR Other Cust 99	TITLE TO THE	MILITARY STANDARD			
	TEE, PIPE TO TUBE, FEMALE PIPE ON RUN, FLARELESS TYPE, HYDRAULIC	MS51822			
PROCUREMENT SPECIFICATION MIL-F-18866	SUPERSEDES: CNHX13 in part and 13.1 in part	SHEET 2 OF 2			